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TECH CENTER 1600/2900

## RAW SEQUENCE LISTING

DATE: 02/13/2001

PATENT APPLICATION: US/09/484,577A

TIME: 14:31:57

Input Set : A:\029001.txt

Output Set: N:\CRF3\02132001\I484577A.raw

4 <110> APPLICANT: Gordon, Lynn K.  
5 Goodglick, Lee  
6 Goldman, Melissa  
8 <120> TITLE OF INVENTION: NOVEL GENES AND POLYPEPTIDES FOR THE  
9 DIAGNOSIS OF GIANT CELL ARTERITIS  
12 <130> FILE REFERENCE: 07419-029001  
14 <140> CURRENT APPLICATION NUMBER: 09/484,577A  
15 <141> CURRENT FILING DATE: 2000-01-18  
17 <160> NUMBER OF SEQ ID NOS: 98  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 682  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Homosapiens  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: artificially generated nucleic acid  
29 <400> SEQUENCE: 1  
30 gatccccgct ttccgcgaggga tgacagcggg actcaattca cgcgcagcga tgccagcgaa 60  
31 ctaaacggag gatctcacga acatccgctc caaccccgac accacgctcc ccgccgtcac 120  
32 gacaggctcg ctgccctcct cgcgcaagtt ctttgcaatc cctgaggccg cgcccgacat 180  
33 ccgcgttccc ttgcgcgaga tcatcctgtc cgaggcgccg ggcgagccga acctgccggt 240  
34 ctatgacacc tcgggcccct acaccgatcc ggccgtgacg atcgacgtca acagcggcct 300  
35 gccgcgcaat cgctcgcctt gggtaagga acgcggcgcc gtcgaggaat atcaggccgc 360  
36 accatcaagc cggaggacaa cggcaatgtc ggcgcacccc acgccgcaa ggcgttcacc 420  
37 ggcaccacaa gccgctgcgc ggctcgacgg cacaagatca cccactcgag ttccgcgcgc 480  
38 cggcattata ccaaggagat gatctacgtc gccgagcgtg agaattcttg cgcaagcagc 540  
39 agctgagcgc gccgaggccg gctgccgacg gaagagtitt ggcgcgcggt tgccggctta 600  
40 ttacgccgga attgtcgca agagatcgcg cggcggccat tatttccctt aaaattaaca 660  
41 ttgccgagct tgaaccgatg aa 682  
43 <210> SEQ ID NO: 2  
44 <211> LENGTH: 92  
45 <212> TYPE: PRT  
46 <213> ORGANISM: Homosapiens  
48 <400> SEQUENCE: 2  
49 Leu Pro Ala Val Thr Thr Gly Ser Leu Pro Ser Ser Arg Lys Phe Phe  
50 1 5 10 15  
51 Ala Ile Pro Glu Ala Ala Pro Asp Ile Arg Val Pro Leu Arg Glu Ile  
52 20 25 30  
53 Ile Leu Ser Glu Gly Ala Gly Glu Pro Asn Leu Pro Val Tyr Asp Thr  
54 35 40 45  
55 Ser Gly Pro Tyr Thr Asp Pro Ala Val Thr Ile Asp Val Asn Ser Gly  
56 50 55 60  
57 Leu Pro Arg Asn Arg Leu Ala Trp Val Lys Glu Arg Gly Gly Val Glu  
58 65 70 75 80  
59 Glu Tyr Gln Ala Ala Pro Ser Ser Arg Arg Thr Thr  
60 85 90  
62 <210> SEQ ID NO: 3

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63 <211> LENGTH: 501
64 <212> TYPE: DNA
65 <213> ORGANISM: Homosapiens
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Synthetically generated nucleic acid
70 <400> SEQUENCE: 3
71 actctccagc ctctcaccga ggatgaagtc ggctcgtgaa gtggttgccg tcggggggcaa      60
72 aaccggggac gagctggcct tcctgccggc cgccctcgaa attgtcgaga cgccgccatc      120
73 tccccaccgc agactcacgc ccgccttget tgctgccttg ttctactgcg ccgtggcgtg      180
74 ggcgggtctc ggcaggatcg acatcgttgc ttctgcatcc agaaagatcg tgccgggcga      240
75 ccgtgtaaag ctggttcagc cgctcgaggt cggcgtggtg cgggccactc atgtccgcga      300
76 tggccaaacc gtcaaggccg gcgagattct gatcgagctg gatccattcg cgggtggtgt      360
77 ggatgttgcg ccccgtcaga ggtccatcac ggtgtcggcg ccccacggat cgccacacca      420
78 tctgtcgac ctttcttcac cgacgagtca ccgccgagtt gccgatattg cgtgatctta      480
79 tcagaatgcg gcgatgatca t                                     501
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 124
83 <212> TYPE: PRT
84 <213> ORGANISM: Homosapiens
86 <400> SEQUENCE: 4
87 Leu Ser Ser Leu Ser Pro Arg Met Lys Ser Ala Arg Glu Val Val Ala
88 1 5 10 15
89 Val Gly Gly Lys Thr Arg Asp Glu Leu Ala Phe Leu Pro Ala Ala Leu
90 20 25 30
91 Glu Ile Val Glu Thr Pro Pro Ser Pro Thr Ala Arg Leu Thr Ala Ala
92 35 40 45
93 Leu Leu Ala Ala Leu Phe Tyr Cys Ala Val Ala Trp Ala Gly Leu Gly
94 50 55 60
95 Arg Ile Asp Ile Val Ala Ser Ala Ser Arg Lys Ile Val Pro Gly Asp
96 65 70 75 80
97 Arg Val Lys Leu Val Gln Pro Leu Glu Val Gly Val Val Arg Ala Thr
98 85 90 95
99 His Val Arg Asp Gly Gln Thr Val Lys Ala Gly Glu Ile Leu Ile Glu
100 100 105 110
101 Leu Asp Pro Phe Ala Gly Gly Val Asp Val Ala Thr
102 115 120
104 <210> SEQ ID NO: 5
105 <211> LENGTH: 747
106 <212> TYPE: DNA
107 <213> ORGANISM: Homosapiens
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Artificially generated nucleic acid
112 <400> SEQUENCE: 5
113 accgacgtcg actatccatg aacggatccc tgcaacgaca tcgtgcgtac ggccatgaa      60
114 gcgctcgccg ccgtgctcgg tggcacgcag tcgctccaca ccaactcgtt cgacgaggcg      120
115 atcgcgctgc cgattgactt ctccgccggg atcgcccgca acaccagctg atccagcagc      180
116 acgagacaga cgtcacggac gcggtcgaca ctctggcggg gtcctactac gtggagcgcc      240
117 tgacggatga cctcgccaag cgggcctggg agctgatgga agaggtcgag aagatgggtg      300
118 gcattggcgca ggcgatcgcg accggttggc cgaagcgcct gatcgagcaa tctgcgacgc      360

```

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```

119 aaaagcaggc cgcgatcgat cgcggcgatc aggtgatcgt gggcgtgaac cgctaccggc 420
120 ccgaacagga gcaaccgatc gacattattg agatcgacaa ctcgacggtt cgggcctccc 480
121 agatccggtg tctcgccgaa atcgaaaagg cgcgtgattc aaggaaggtt gagtccgcgc 540
122 tcggggagct ggcgtgtatt gccgcacgg gtgagggaaa tctgctggct gcagcgaccg 600
123 agcccgtctg cgcgcgggct accgtcgggg agatgtccga cgccatgcgg caagcattcg 660
124 gcgaccacga ggcggtgccg gaggtagtgt cggacgttta cggccgtgcc tatggcacgg 720
125 atccgttcat ggatagtcga cgtcgtt 747
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 48
129 <212> TYPE: PRT
130 <213> ORGANISM: Homosapiens
132 <400> SEQUENCE: 6
133 Asp Pro Cys Asn Asp Ile Val Arg Thr Ala Tyr Glu Ala Leu Ala Ala
134 1 5 10 15
135 Val Leu Gly Gly Thr Gln Ser Leu His Thr Asn Ser Phe Asp Glu Ala
136 20 25 30
137 Ile Ala Leu Pro Ile Asp Phe Ser Ala Arg Ile Ala Arg Asn Thr Ser
138 35 40 45
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 301
142 <212> TYPE: DNA
143 <213> ORGANISM: Homosapiens
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Synthetically generated nucleic acid
148 <400> SEQUENCE: 7
149 actctccagc ctctcaccga ggatcatcga cgacattaag cagctggccg acaacggcgt 60
150 gcgcgaattc acgctgatcg gacagaatgt caacgcctac cagcgccgag ggcccgcacg 120
151 ccgcgtctgg ccgctcggca aattgctgca gcgactcgcg gacattocag gcgtcatgcg 180
152 gctgcgttat tcgatcagcc atccgcgcga cgtcgacgac agcctgatcg ccgcgcacg 240
153 cgatttgccc ggactgatgc cgttcgtgca cctgccggtg caatcggggg cggaccggat 300
154 c 301
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 91
158 <212> TYPE: PRT
159 <213> ORGANISM: Homosapiens
161 <400> SEQUENCE: 8
162 Ile Ile Asp Asp Ile Lys Gln Leu Ala Asp Asn Gly Val Arg Glu Phe
163 1 5 10 15
164 Thr Leu Ile Gly Gln Asn Val Asn Ala Tyr His Gly Gly Gly Pro Asp
165 20 25 30
166 Gly Arg Val Trp Pro Leu Gly Lys Leu Leu Gln Arg Leu Ala Asp Ile
167 35 40 45
168 Pro Gly Val Met Arg Leu Arg Tyr Ser Ile Ser His Pro Arg Asp Val
169 50 55 60
170 Asp Asp Ser Leu Ile Ala Ala His Arg Asp Leu Pro Gly Leu Met Pro
171 65 70 75 80
172 Phe Val His Leu Pro Val Gln Ser Gly Ala Asp
173 85 90
175 <210> SEQ ID NO: 9

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Input Set : A:\029001.txt

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176 <211> LENGTH: 620
177 <212> TYPE: DNA
178 <213> ORGANISM: Homosapiens
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (0)...(0)
183 <223> OTHER INFORMATION: N=A,T,C or G
185 <400> SEQUENCE: 9
W--> 186 actctccanc ctctcaccga ggatcagaat aggtgaagag cgaagacacc gagaacgtct 60
187 ggccttgaac ggacagcgtg cttgagttgg tcgggggtcac caccggaccc gtgtccaccg 120
W--> 188 gcgcagtcac ngtgaaagca cttgaccatg atcccagacg gtgccgtcat ccgcgcggac 180
W--> 189 ccacancgtn tccgcgcccc accggattga tagctcagcg acaccagctg ggctgccgtg 240
W--> 190 acgtanttgt gctggttngg tgcaagtgcc acccgcgtca agacaaantg gccgcacctg 300
W--> 191 tgcccggtgc ccaaacgtca tattgggtcg cagcactgtc gaacggatca ctgtangtgc 360
W--> 192 acagcgacna anccgcatan ctctngccgt ggggcgcaac gatgttnnac accgtctcaa 420
W--> 193 cgggtaccgt gtcnagggga ncatttacng ggaaagcatt cgaccactcc cccacaccgt 480
W--> 194 gcccgcatth gcgcgcattc ctttcattga tatgtccacg tcggtnggnc tttaagcngg 540
W--> 195 cggaaccgc ggtgnagctn cactttttgt tccttttatt ganggttaat ttgcgcgctt 600
W--> 196 tggncgtaan tntttnga 620
198 <210> SEQ ID NO: 10
199 <211> LENGTH: 662
200 <212> TYPE: DNA
201 <213> ORGANISM: Homosapiens
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (0)...(0)
206 <223> OTHER INFORMATION: N=A,T,C or G
208 <400> SEQUENCE: 10
209 gatccgacca gcaatcaggc ggagctgcag cacctgaaaa acgaccttct ctcggcactg 60
210 ctgggtatth caccgaaccg ctctgcgtt ggccggaaaac accgacgcgc ttgaaggctt 120
211 accggacgac acgcgcgccg ccttgattcg aatgcactcg gactacttgc gcagtcagga 180
212 ttccgagcag cgcgccaagc tgtccgaact ggatcagcaa cgggtgcaga aggtcgcgga 240
W--> 213 gaccaggacg atcgacgcca gcatcgcgaa gattgaagct ttgctgcggt gctgcaggan 300
214 cgggtcgggg ttgcgaagta cctggcggac agggagtacg gctcaaagct gcaatatctg 360
215 caggaaactcc aggaactggt cgggatgcag caggacatcc tggtgcaacg gagcaaagct 420
W--> 216 cgaggaaaacc aatgcggntt gtcgcgcac ttcgacgaaa acccgcggna agcttcgtct 480
W--> 217 nngaataacc ggcaccgnc tgttcnagc atcttggccc aaggggacgc aaaaaagggc 540
W--> 218 cggaagncc tcaaaggacc aagggngttt taaaanccga gcaccggga cccaaccttt 600
W--> 219 aaaaancntt ggcggccccc attcgacggn gtgngggcaa caaattgggc cnggccccat 660
220 tt 662
222 <210> SEQ ID NO: 11
223 <211> LENGTH: 242
224 <212> TYPE: DNA
225 <213> ORGANISM: Homosapiens
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (0)...(0)
230 <223> OTHER INFORMATION: N=A,T,C or G
232 <400> SEQUENCE: 11

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Input Set : A:\029001.txt

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```

W--> 233 actctcnnge ctctcaccga agatagccgg caaggactgg cngaacann gcgcgctgga      60
W--> 234 ctatcnctaa agggctccn acnacgtcca nccggacnag ctgacctcgt ttcncnaag      120
W--> 235 cgtgaaactg aagggcgggtg aaacntcnt gtctgcctng atcacctact agtcgcgcgc      180
W--> 236 cnnngcgcgac aggatcaacg ccaaggtgat ggccgatccc cgccctggcgt cgtcgatgga      240
      237 tc                                                                    242
      239 <210> SEQ ID NO: 12
      240 <211> LENGTH: 552
      241 <212> TYPE: DNA
      242 <213> ORGANISM: Homosapiens
      244 <400> SEQUENCE: 12
      245 gatccgctcg atgccagcgc ccagtacagc gaactgttcg cccatggccg cggcacgtca      60
      246 ctgttgctat tcgaacatgt tcacggtgaa tcccgtagcc gcggccaggc gatggtggac      120
      247 ctgctggcgc agtacagcgc gcacggtttg cagttaaaca gccgcgaatt accggaccac      180
      248 ctgccgctgt atctggagta cctgtcgcag ctgccgcaag gcgaagccgt ggaaggtttg      240
      249 aaagatatcg cgccgattct ggcattgctg agcgcgcgtc tgcaacagcg tgaaagccgt      300
      250 tatgccgtga tgtttgatct gctgctgaaa ttggccgata ccgctatcga cagcgacaaa      360
      251 gtggcggaaa aaattgccga cgaagcgcgc gatgatacgc cgcaggcgtt ggatgctgtt      420
      252 tgggaagaag agcaggttaa attctttgct gacaaaggct gcggcgattc agcaatcact      480
      253 gctcatcagc gtcgctttgc cggtgccgtc gcgcgcgaat atctgaatat cctcggtgag      540
      254 aggctggaga gt                                                                    552
      256 <210> SEQ ID NO: 13
      257 <211> LENGTH: 265
      258 <212> TYPE: DNA
      259 <213> ORGANISM: Homosapiens
      261 <220> FEATURE:
      262 <221> NAME/KEY: misc_feature
      263 <222> LOCATION: (0)...(0)
      264 <223> OTHER INFORMATION: N=A,T,C or G
      266 <400> SEQUENCE: 13
W--> 267 gatcctnaca cantagcccg tggacgcatt tgcgtcgacc ctcatangga agcgatacga      60
W--> 268 ggcgggtnaa agtgaacatc cgccgagcac ggcagcgacg cctccgctca cgtcngcgc      120
W--> 269 agtacttcct cgggtcgccg cgccatgacac tctgcgcctg gacatcaanc cgtgaacca      180
W--> 270 cgggagactt tgcgcgcgna agggatgagt ccactattag atgacgcagt gctacgagcc      240
W--> 271 natectcggg ganaagctgg agagt                                                                    265
      273 <210> SEQ ID NO: 14
      274 <211> LENGTH: 317
      275 <212> TYPE: DNA
      276 <213> ORGANISM: Homosapiens
      278 <220> FEATURE:
      279 <221> NAME/KEY: misc_feature
      280 <222> LOCATION: (0)...(0)
      281 <223> OTHER INFORMATION: N=A,T,C or G
      283 <400> SEQUENCE: 14
W--> 284 gatccggccn cgcacganct taccggtnaa aacttcnncn ccnataatat ttgccgcgcg      60
W--> 285 agccgccttg angtctctcg cgtaactcgg gatgcacggg ggaccgtgac ggttgantg      120
W--> 286 ccttggtttt tctcagcnga aatctgcaca gccatcttcc gatcgatctg gcgcagggtg      180
W--> 287 ggcggcncaa aacgggtggc atctccaaac cgcaggaacg tgttttgacg gatgtcgaac      240
W--> 288 atcatccacg cttcggtncn caacggctac ttcgcccggt accgggccat gtcatectcg      300
W--> 289 gtganaagct gganant                                                                    317

```

FYI:

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

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DATE: 02/13/2001

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Input Set : A:\029001.txt

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L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:340 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:340 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:340 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17  
L:342 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:342 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
M:340 Repeated in SeqNo=17  
L:343 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:343 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:344 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:344 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17

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Input Set : A:\029001.txt

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L:345 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:345 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:346 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17  
L:346 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17  
L:363 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18  
L:363 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18  
L:363 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18  
L:364 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18  
L:364 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18  
M:340 Repeated in SeqNo=18  
L:365 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18  
L:365 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:446 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:446 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:446 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20  
L:450 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:450 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
M:340 Repeated in SeqNo=20  
L:452 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:452 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:454 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:454 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:456 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:456 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:460 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:460 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:462 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:462 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:464 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:464 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:466 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:466 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:468 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:468 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:470 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20  
L:470 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20  
L:552 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22

## VERIFICATION SUMMARY

DATE: 02/13/2001

PATENT APPLICATION: US/09/484,577A

TIME: 14:31:58

Input Set : A:\029001.txt

Output Set: N:\CRF3\02132001\I484577A.raw

L:552 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
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L:556 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:556 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
M:340 Repeated in SeqNo=22  
L:558 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:558 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:560 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:560 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:562 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:562 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:657 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24  
M:340 Repeated in SeqNo=24  
L:697 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25  
M:340 Repeated in SeqNo=25  
L:722 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:26  
M:340 Repeated in SeqNo=26  
L:762 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27  
M:340 Repeated in SeqNo=27  
L:802 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
M:340 Repeated in SeqNo=28  
L:923 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:30  
M:340 Repeated in SeqNo=30  
L:1034 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
M:340 Repeated in SeqNo=32  
L:1145 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:34  
M:340 Repeated in SeqNo=34  
L:1175 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35  
M:340 Repeated in SeqNo=35  
L:1201 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36  
M:340 Repeated in SeqNo=36  
L:1243 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37  
M:340 Repeated in SeqNo=37  
L:1285 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:38  
M:340 Repeated in SeqNo=38  
L:1357 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:40  
M:340 Repeated in SeqNo=40  
L:1408 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:42  
M:340 Repeated in SeqNo=42  
L:1459 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:44  
M:340 Repeated in SeqNo=44  
L:1481 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:45  
M:340 Repeated in SeqNo=45  
L:1501 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46  
M:340 Repeated in SeqNo=46  
L:1523 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:47  
M:340 Repeated in SeqNo=47  
L:1545 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:48  
M:340 Repeated in SeqNo=48



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/484,577A

DATE: 02/13/2001

TIME: 14:31:58

Input Set : A:\029001.txt

Output Set: N:\CRF3\02132001\I484577A.raw

L:2021 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60

M:340 Repeated in SeqNo=60

L:2084 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62

M:340 Repeated in SeqNo=62

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/319,860A

DATE: 02/13/2001

TIME: 14:30:41

Input Set : A:\09-31981.app

Output Set: N:\CRF3\02132001\I319860A.raw

ENTERED

3 <110> APPLICANT: Grant, Peter J  
5 <120> TITLE OF INVENTION: Atherothrombotic Disorders: Mutation in the Factor XIII  
6 Gene  
8 <130> FILE REFERENCE: Sequence Listing SN 09/319,860  
10 <140> CURRENT APPLICATION NUMBER: 09/319,860A  
11 <141> CURRENT FILING DATE: 1999-06-11  
13 <150> PRIOR APPLICATION NUMBER: PCT/GB97/03435  
14 <151> PRIOR FILING DATE: 1997-12-12  
16 <150> PRIOR APPLICATION NUMBER: GB 9625934.6  
17 <151> PRIOR FILING DATE: 1996-12-13  
19 <160> NUMBER OF SEQ ID NOS: 3  
21 <170> SOFTWARE: PatentIn Ver. 2.1  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 19  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer  
30 sequence  
32 <400> SEQUENCE: 1  
33 acccagagtg gtggggaag 19  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 23  
38 <212> TYPE: DNA  
39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer  
43 sequence  
45 <400> SEQUENCE: 2  
46 gaccttgtaa agtcaaaaat gtc 23  
49 <210> SEQ ID NO: 3  
50 <211> LENGTH: 129  
51 <212> TYPE: DNA  
52 <213> ORGANISM: Homo sapiens  
54 <220> FEATURE:  
55 <221> NAME/KEY: exon  
56 <222> LOCATION: (1)..(42)  
57 <223> OTHER INFORMATION: exon 2 of Factor XIIIa  
59 <400> SEQUENCE: 3  
60 atgtcagaaa cttccaggac cgcctttgga ggcagaagag cagttccacc caataactct 60  
61 aatgcagcgg aagatgacot gccacacagt gagcttcagg gcgtggtgcc ccggggcgctc 120  
62 aacctgcaa 129

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/319,860A

DATE: 02/13/2001  
TIME: 14:30:42

Input Set : A:\09-31981.app

Output Set: N:\CRF3\02132001\I319860A.raw